



Element Materials Technology - Fort Wayne
328 Ley Rd.
Fort Wayne, IN 46825
TEL: (260) 424-1622 FAX: (260) 424-9124
Website: www.element.com

September 18, 2020

Nickie Geros
East Chicago Sanitary District
5201 Indianapolis Blvd
East Chicago, IN 46312
TEL: 219-391-8466
FAX:

RE: S-901

Order No.: 20091199

Dear Nickie Geros:

Element Materials Technology - Fort Wayne received 2 sample(s) on 9/11/2020 for the analyses presented in the following report.

In accordance with your instructions, Element Materials Technology Indiana conducted the analysis shown on the following pages on samples submitted by your company. The results relate only to the items tested. Unless otherwise noted, all analysis was conducted using approved methodologies from EPA, SM, or other client-specified methods. All relevant sampling information is on the attached chain-of-custody form. The initials SUB as the analyst designate any testing sub-contracted by Element Materials Technology Indiana.

This report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Andrew Etter
Project Manager
328 Ley Rd.
Fort Wayne, IN 46825



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Analytical Report

(continuous)

WO#: 20091199

Date Reported 9/18/2020

CLIENT: East Chicago Sanitary District

Lab Order: 20091199

Project: S-901

Lab ID: 20091199-001

Collection Date: 9/10/2020 9:46:00 AM

Client Sample ID: #901

Matrix: WASTEWATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
CYANIDE, AVAILABLE BY LIGAND EXCHANGE				OIA-1677-09	Analyst: CRT	
Cyanide, Available	0.14	0.0020		mg/L	1	9/17/2020 10:06:00 AM
OIL AND GREASE, TOTAL				E1664	Analyst: HN	
Oil & Grease, Total	< 5.0	5.0		mg/L	1	9/14/2020 1:42:59 PM
OIL AND GREASE, PETROLEUM HYDROCARBONS				E1664	Analyst: HN	
Oil & Grease, Petroleum	< 5.0	5.0		mg/L	1	9/14/2020 1:42:59 PM
SV COMPOUNDS FOR CATEGORICAL RQTS				E625	Analyst: SF	
Bis(2-ethylhexyl)phthalate	< 0.10	0.10		mg/L	10	9/15/2020 10:39:00 PM
Carbazole	< 0.10	0.10		mg/L	10	9/15/2020 10:39:00 PM
Fluoranthene	< 0.10	0.10		mg/L	10	9/15/2020 10:39:00 PM
n-Decane	< 0.10	0.10		mg/L	10	9/15/2020 10:39:00 PM
n-Octadecane	< 0.10	0.10		mg/L	10	9/15/2020 10:39:00 PM
SEMI-VOLATILES IN WW				E625	Analyst: SF	
Phenanthrene	< 0.10	0.10		mg/L	10	9/15/2020 10:39:00 PM

Qualifiers:	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit
	PL	Permit Limit	PQL	Practical Quantitation Limit
	RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits



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Analytical Report

(continuous)

WO#: 20091199

Date Reported 9/18/2020

CLIENT: East Chicago Sanitary District

Lab Order: 20091199

Project: S-901

Lab ID: 20091199-002

Collection Date: 9/10/2020 9:46:00 AM

Client Sample ID: #901

Matrix: WASTEWATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
FLUORIDE		E300.0			Analyst: HN	
Fluoride	2.2	0.5		mg/L	5	9/11/2020 6:58:00 PM
CHEMICAL OXYGEN DEMAND		M5220 D			Analyst: DDE	
Chemical Oxygen Demand	575	10.0		mg/L	1	9/14/2020 1:12:00 PM
AMMONIA AS N		E350.1			Analyst: AC	
Nitrogen, Ammonia (As N)	46.6	1.00		mg/L	10	9/14/2020 3:08:05 PM
PHENOLICS IN WASTEWATER		E420.1			Analyst: ANS	
Phenolics, Total Recoverable	0.110	0.050		mg/L	2	9/16/2020 8:00:00 PM
TOTAL PHOSPHORUS		M4500-P F			Analyst: NB	
Total Phosphorus	0.568	0.050		mg/L	1	9/15/2020 2:39:00 PM
TOTAL SUSPENDED SOLIDS		M2540 D			Analyst: MNK	
Suspended Solids (Residue, Non-Filterable)	126	40		mg/L	1	9/15/2020 1:19:00 PM
MERCURY		E245.1			Analyst: FJR	
Mercury	0.00013	0.00010		mg/L	1	9/16/2020 2:07:09 PM
METALS IN WATER BY ICP-MS, TOTALS		E200.8			Analyst: FJR	
Arsenic	0.0140	0.00020		mg/L	1	9/16/2020
Chromium	0.0134	0.00040		mg/L	1	9/16/2020
Cobalt	0.00205	0.00010		mg/L	1	9/16/2020
Copper	0.00676	0.00020		mg/L	1	9/16/2020
Lead	0.00081	0.00020		mg/L	1	9/16/2020

Qualifiers:
H Holding times for preparation or analysis exceeded
M Manual Integration used to determine area response
PL Permit Limit
RL Reporting Detection Limit

J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit
PQL Practical Quantitation Limit
S Spike Recovery outside accepted recovery limits



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WO#: 20091199

Date Reported 9/18/2020

CLIENT: East Chicago Sanitary District

Lab Order: 20091199

Project: S-901

METALS IN WATER BY ICP-MS, TOTALS

E200.8

Analyst: FJR

Molybdenum	0.0770	0.00020	mg/L	1	9/16/2020
Nickel	0.0187	0.00100	mg/L	1	9/16/2020
Tin	< 0.00500	0.00500	mg/L	1	9/16/2020
Zinc	0.145	0.00400	mg/L	10	9/18/2020 1:02:52 PM

Qualifiers:

H Holding times for preparation or analysis exceeded
M Manual Integration used to determine area response
PL Permit Limit
RL Reporting Detection Limit

J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit
PQL Practical Quantitation Limit
S Spike Recovery outside accepted recovery limits

W-78

Chain of Custody

M-18

Laboratory Number:

20091199

Company Name:

East Chicago Sanitary District

Contact Name:

Nickie Geros

Address:

5201 Indianapolis Blvd

City, State Zip:

East Chicago IN 46312

Phone Number:

219-391-8466

Fax Number:

Ext. 240

E-mail Address:

ngeros@eastchicago.com

Billing Information:

Same

PO Number:

Quote Number:

Required QC Level

Bill Monthly

☐ Yes

☐ No

Project Name/Number:

S-901

Sampler's Signature

Shipping Method:

UPS / FedEx

☒ Hand / Mail

Page 1 of 1

Page 5 of 5

Which Regulations Apply:

- ☐ RCRA ☐ Drinking Water
☐ POTW ☐ Distribution
☐ NPDES ☐ Special
☐ USDA/FDA ☐ State
☐ RECAP/RISC ☐ Other

Turn Time
5 TAT

(Rush turn times will incur a surcharge and must be pre-approved by lab.)

Collection Information

Date Time

Grab / Composite

Matrix

Quantity

Type
P=Plastic, G=Glass, V=Vial

Pres.

HCl, HNO₃, H₂SO₄, NaOH, Na₂S₂O₃

CYANIDE 1677

Oil & Grease T&SI

**SVOC list

*Metals

NH₃, T.PHOS, COD

PHENOL

300: Fluoride

TSS

Comments

Samples Meet Acceptance Policy
(Yes) No

*As, Cr, Cu, Pb, Mo, Ni, Zn, & Hg, Extra: Co, Sn

**Carbazole, n-Decane, Fluoranthene, n-Octadecane, Phenanthrene, Bis(2EH) Phthalate

Temp 24.4°C

Sample ID/Description	Date	Time	Grab / Composite	Matrix	Quantity	Type	Pres.	CYANIDE 1677	Oil & Grease T&SI	**SVOC list	*Metals	NH ₃ , T.PHOS, COD	PHENOL	300: Fluoride	TSS	Comments
S-901 Grab	9-10-20	9:46	Grab	WW	1	P	NAOH	X								
S-901 Grab			Grab	WW	1	G	H ₂ SO ₄		X							
S-901 Grab			Grab	WW	1	G	NONE			X						
S-901 Composite			Comp	WW	1	P	HNO ₃				X					
S-901 Composite			Comp	WW	1	P	H ₂ SO ₄					X				
S-901 Composite			Comp	WW	1	G	H ₂ SO ₄						X			
S-901 Composite			Comp	WW	2	P	NONE							X	X	

Relinquished by

Date/Time

Received by

Date/Time

Composite Sampler:

Start Date/Time: 9-10-20 9:46

End Date/Time: 9-11-20 8:23

Received at lab on ice?

☐ Yes ☐ No Temp: 4°C

1	W. G. Geros	9.11.20/1045	Handwritten Signature	9-11-20/1045	Received at lab on ice?
2	Handwritten Signature	9-11-20/1045	Handwritten Signature	9-11-20/1045	Received at lab on ice?
3					Received at lab on ice?

All samples submitted to Element Materials Technology for analysis are accepted on a custodial basis only. Ownership of the material remains with the client submitting the samples. Element Materials Technology reserves the right to return unused sample portions.

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